



CERCLA

Screening Site Inspection Report



**Illinois Environmental
Protection Agency**
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EPA Region 5 Records Ctr.



300847

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1. INTRODUCTION

Illinois Environmental Protection Agency's Pre-Remedial Unit was tasked by the U.S. Environmental Protection Agency (USEPA) to conduct a screening site inspection (SSI) of the Champion Laboratories site in Albion, Illinois.

The site was initially discovered by the U.S. Environmental Protection Agency. The site was evaluated in the form of a Preliminary Assessment (PA) that was submitted to USEPA prepared by Kenneth W. Corkill of the IEPA and is dated January 7, 1986. The IEPA's Pre-Remedial Unit prepared an SSI workplan of the Champion Laboratories site that was approved by USEPA. The SSI of this site was conducted on July 18, 1989. The IEPA SSI included an interview with a site representative, a reconnaissance inspection, and the collection of 10 samples (6 soil, 3 sediment and 1 sample of water and sludge in a drain).

The purposes of an SSI have been stated by USEPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS (Hazard Ranking System) score, 2) establish priorities among sites most likely to qualify for the NPL (National Priorities List), and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP (no further remedial action planned), or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA (Resource Conservation and Recovery Act) ... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI (USEPA 1988).

USEPA Region V has also instructed IEPA to identify sites during the SSI that may require removal action to remediate an immediate human health and/or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained from the SSI workplan preparation and site representative interview.

2.2 SITE DESCRIPTION

Champion Laboratories, Incorporated is an active manufacturer of automotive air, oil and changeable element filters and components. Another formerly active division formulated and packaged liquid and aerosol automotive products. The sites ground surface consists of soil, grass, asphalt, gravel and concrete. The site contains two large buildings housing the manufacturing equipment, assembly lines and storage/shipping areas. Also on site are five horizontal and three vertical Plastisol tanks (all above ground), an oil/water separator which leads to an oil holding tank and a water holding tank, and a drum holding area.

The site is located at 105 East Walnut, Albion, Illinois, in Edwards County (Figure 2-1). The parcel of land which is occupied by Champion consists of 5 to 6 acres in the SW 1/4 of the SW 1/4 of Section 1, T2S - R10E (Figure 2-2). For potential groundwater and surface water migration, a 4-mile radius groundwater route map (Appendix A) surrounding the site and a surface water route map (Appendix B) are provided.

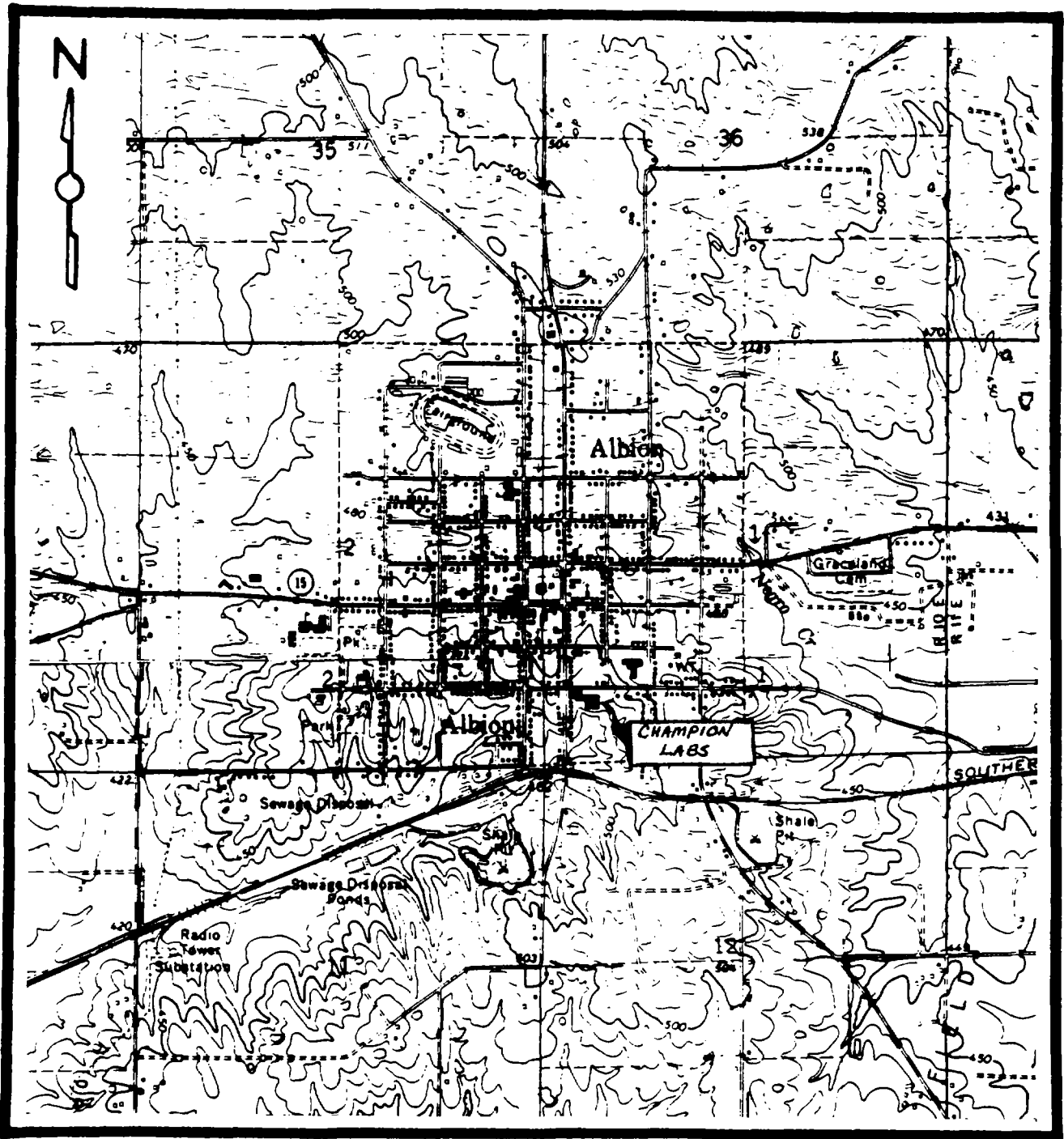
2.3 SITE HISTORY

The site is owned and operated by Champion Laboratories of Albion, Illinois. Plant operations began in 1970 and had two divisions located on the property. The Pyroil Division formulated and packaged liquid and aerosol automotive products. The Champion Division manufactures automotive air and



SITE LOCATION

FIGURE 2-1



SOURCE: IEPA, 1989

SITE MAP
FIGURE 2-2

oil filters. The Luber-finer Division, located southwest of the Champion property, manufactures changeable element filters and components. The warehouse and shipping facility is located on the parcel of property occupied by Champion. Another plant of the Champion Division is located in West Salem, Illinois. During past inspections of the site a number of drums have been found with various wastes in them. Wastes were chrome waste liquid and sludge, solvents and degreasers (Butyl Acetate, alcohol, ink and waste trichloroethane). Above and below ground storage tanks were also noted on site being both waste and bulk storage tanks.

The Pyroil Division had been active at the site until early 1988 when it was sold to Ashland Chemical Company. Champion Labs, therefore, does not engage in formulation of products anymore. The Pyroil Division had nine 20,000 gallon outdoor bulk storage tanks and four formulation tanks inside their building. Formulation was of both water based and solvent based products including radiator chemicals, deicers, windshield cleaners and oil additives. When the tanks were cleaned the employees used water, stoddard solvent or mineral spirits. This was drained to an underground holding tank which was pumped dry and the waste taken to a salt well. This occurred about once a week. The use of the salt well for injection into the ground has been discontinued since 1987. The underground tank was supposed to have had a steel bottom, however, site inspectors could not determine the integrity. The area around the tank was noted to contain stains on the soil and discolored puddles. Pyroil's tank farm area had been bermed and covered with gravel but not lined. A sump in the corner of the area discharged to a railroad siding ditch which ran into a larger drainage way and off-site. Discolored stains had also been noted at this point by previous inspections.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI at the Champion Laboratories site. Individual subsections address the site representative interview, reconnaissance inspection and sampling procedures. The SSI was conducted in accordance with the USEPA-approved workplan.

The USEPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Champion Laboratories site is provided in Appendix C.

3.2 SITE REPRESENTATIVE INTERVIEW

Kenneth W. Corkill, IEPA team leader, conducted an interview with Mr. Steven Storckman, Plant Manager and Ms. Mary Smerdon, Environmental Superintendent for Champion Laboratories in Albion, Illinois. The interview was conducted at the site on July 18, 1989.

Also present during the interview was Gary Reside of IEPA's Pre-Remedial Unit. The interview was conducted to inform the site representatives of IEPA's intentions and to talk to them about past activities and problems. Shortly after the sampling teams' arrival at 11:00 a.m. the goals of the investigation were explained. The plans involved the collection of 8-12 soil/sediment samples from on and off site. Samples were to be collected by augering or by use of a stainless steel spoon at various locations and depths to determine if there is any contamination at the site and if so what types. Samples were to be taken from the ground surface to a maximum depth of 10 feet in depth.

Mr. Storckman then was asked to give a short site history narrative and describe the processes of each division. He indicated that the Pyroil Division had been sold to Ashland Chemical Company in early 1988 and with the sale Champion no longer was in the product formulation business. Champion was now in the process of selling all excess Pyroil automotive chemical stock remaining in the warehouse. This section of one of the buildings would be used to expand the Champion Division. The Champion Division processes metal parts it fabricates through a three stage washing system consisting of a caustic cleaner (Potassium Hydroxide), a water rinse and a rust inhibitor prior to forming a complete unit. Once the unit is complete it is placed on a painting assembly line and painted according to certain specifications of an order. All waste wash solution and rust inhibitor is, at the end of their service life, placed in an indoor, above ground holding tank which is then pumped to the oil/water separator, located south of the buildings. Champion places the separated oil and water in respective holding tanks adjacent to the separator. The oil is hauled to Indiana for reuse as an additive in the manufacture of asphalt. The water is treated to adjust pH, BOD etc. and tested prior to discharge to the Albion City sanitary sewer system. Champion works with the City to assure its treatment meets necessary discharge criteria. The water is slowly bled into the sewer system so as not to create a large influx of water at the waste treatment plant. Champion also manufactures air filters which utilize a substance called plastisol to form the rubberized plastic top and bottom of the filter. Plastisol is stored in 8 outdoor tanks, pumped indoors, placed in molds and heated to cure the substance. The Luber-Finer Division is not located on the parcel of property of concern and therefore will not be discussed.

Mr. Storckman and Ms. Smerdon informed the sampling team that the nine 20,000 gallon Pyroil storage tanks and the inground holding tank had been cleaned and removed from the site in June 1989. The tanks were cleaned by a firm from Fairfield, Illinois. The wash water was collected in a concrete holding area and then pumped to the oil/water separator. The steel tanks were dismantled and taken to Chicago for recycling on eighteen flatbed tractor trailers. Champion was given a clean closure certification regarding the tank farm area.

Asked about any mishaps on-site, Mr. Storckman indicated only two spills. One was a spill of diesel fuel, approximately 25 gallons, which was quickly cleaned up. The other was a spill of heptane which was caused by a bad transfer hose hook up from a tank to a tank truck. This spill consisted of 300-400 gallons but was cleaned up immediately by suction of the tank truck. None of the heptane ran off site. There was no need to remove any soil in the area because of the immediate cleanup and evaporation of the substance. Illinois EPA tested the soil after cleanup and found it clean.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, IEPA personnel conducted a reconnaissance inspection of the Champion site and surrounding area. The reconnaissance inspection included a walk-through of the property to identify potential locations for soil sampling and to determine appropriate health and safety requirements. The reconnaissance inspection began at 11:30 am on July 18, 1989. Mr. Storckman and Ms. Smerdon accompanied the IEPA personnel on the reconnaissance inspection.

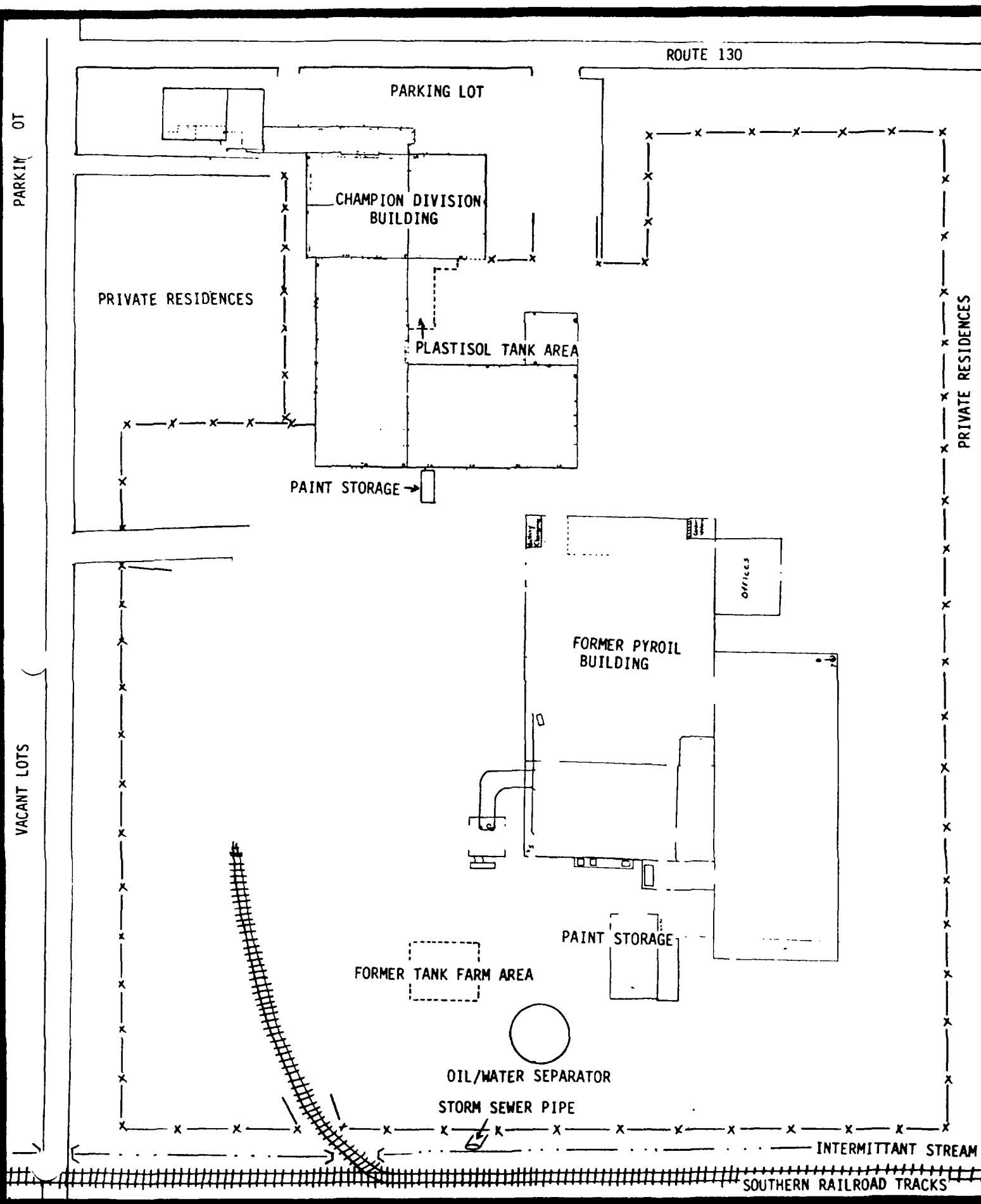
Reconnaissance Inspection Observations. The 5-6 acre Champion facility as mentioned previously, is mostly covered with dirt and gravel with some spotty grass cover. Areas near the buildings are either asphalt or concrete covered plus parking areas of asphalt north and east of the structures. Surface topography in the area surrounding the site is gently rolling terrain with site slope toward the southwest on the west and north portions of the property, and toward the south-southeast on the southeast portion of the property.

The site is bordered on the north by Walnut Street and residences north of Walnut, on the south by the Southern Railroad, on the east by residences and on the west by residences (Figure 3-1). The entire south half and east quarter of the north half are fenced with chain link fencing topped with three strands of barbed wire. The north three-quarters of the site which is the parking lot and the northern most building are not fenced. No additional security measures exist.

Surface drainage following site slope flows to a small intermittent ditch located south of the Champion property adjacent to the Southern Railroad tracks. The ditch flows west past the Luber-Finer facility then enters a small creek and continues southwest.

During the site walk-through areas of stained soil were observed and chosen for sample points. The area of the former tank farm was observed to be "clean" with fresh fill covering the area. No unusual site characteristics were noted nor were there any particularly dirty areas seen.

Land use in the vicinity of the site is mainly residential within one mile, with commercial establishments also scattered within one mile. The remainder is agricultural beginning a quarter mile from the site.



SOURCE: IEPA, 1989

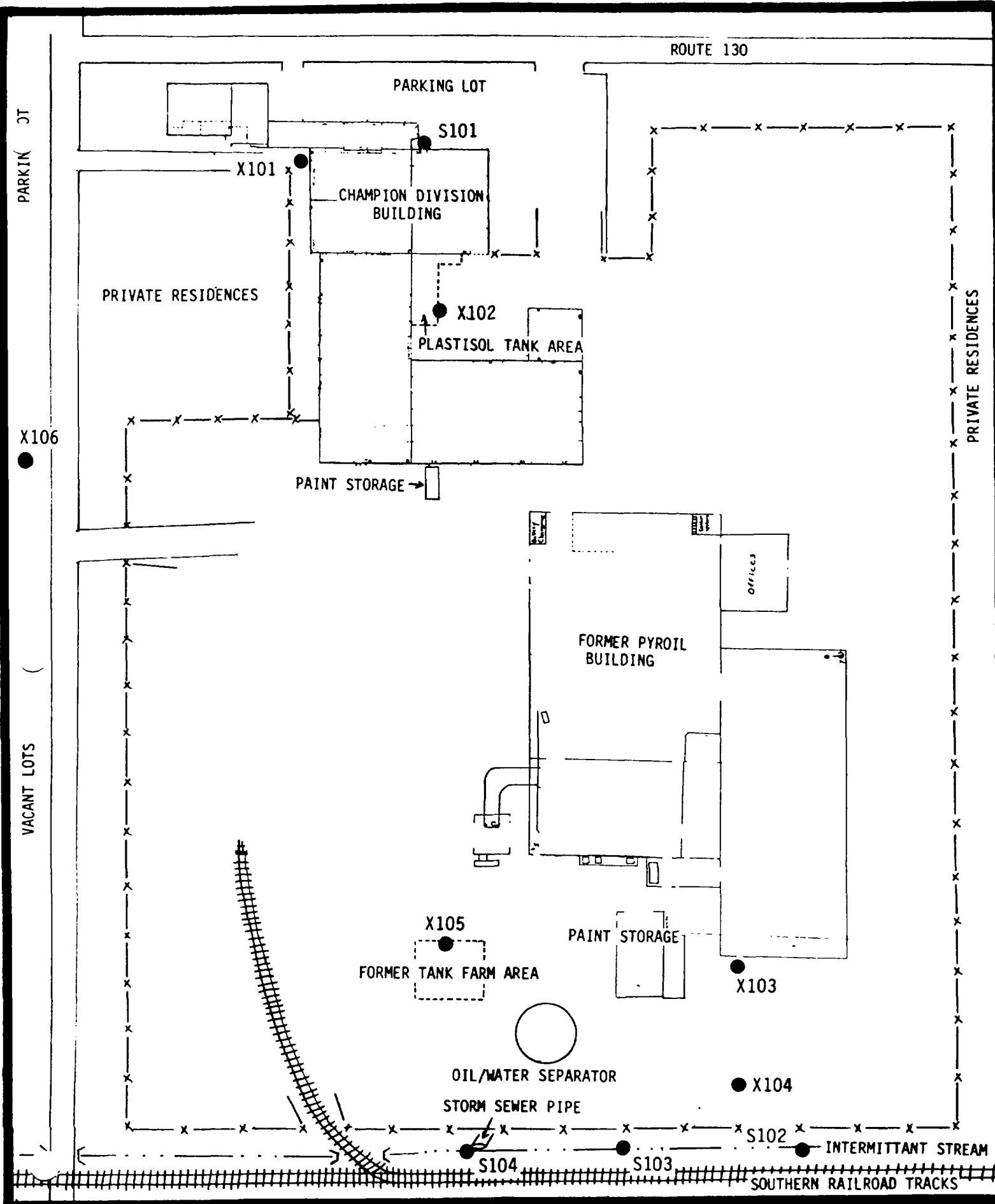
SITE FEATURES FIGURE 3-1

3.4 SAMPLING PROCEDURES

Samples were collected by IEPA personnel to determine levels of USEPA Target Compound List (TCL) compounds present at the site. The TCL is provided in Appendix D.

On July 18, 1989, IEPA personnel collected 1 oil sample, 6 soil samples and 3 stream sediment samples (see Figure 3-2 for the 10 sampling locations). The samples were not requested to be split with Champion. Mr. Storckman and Ms. Smerdon accompanied the IEPA sampling team during the sample collection

Soil Sampling Procedures. The 6 soil samples were collected to compare an off-site (X106) with 5 on-site samples. Sample X101 was taken 275 feet east of the western property line and 10 feet south of the southern wall of this particular segment of the building. This particular spot was chosen while the sampling team was doing the site walk-through and noticed a pile of 55 gallon drums against the building and what appeared to be spillage just outside a doorway. X101 was taken using a stainless steel spoon at a depth of between zero to 6 inches and, as with all samples, placed directly into the sample jars. The substance on the ground did not appear to be from the stack of drums but from someone dumping it from inside the building. The contaminant was also noted to be very slippery. X102 was taken in the plastisol tank area. The sample was specifically taken from the soil beneath the southern most horizontal plastisol tank at a depth of zero to 6 inches using a stainless steel spoon. The sample was noted to be oily, black and have a high liquid content. Gravel was present under the sludge. X103 was taken 50 feet west of the southeast corner of the former Pyroil building, downslope from an area which contained three separator tanks and a sump. The sampling point was on the slope leading from the concrete block containment wall surrounding the tanks to a driveway. A stainless steel spoon was used to



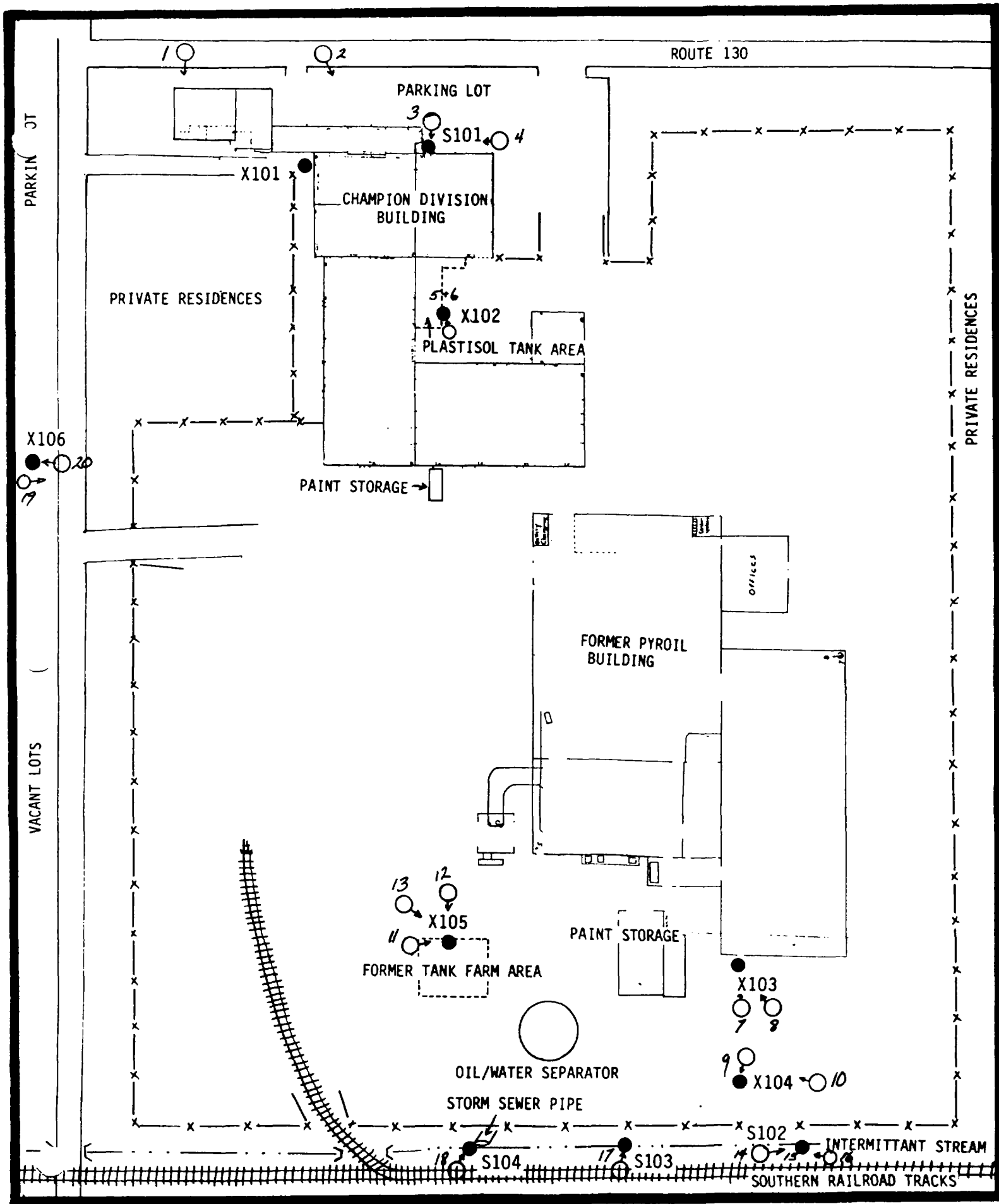
SOURCE: IEPA, 1989

SAMPLE LOCATIONS FIGURE 3-2

obtain the sample from zero to 6 inches in depth. Dark stains were noted throughout the sample. X104 was taken 20 feet north of the southern property boundary and 150 feet west of the eastern property boundary of Champion at a depth of between zero and 6 inches. Soil in the area was stained in various locations. X105 was taken south of the former Pyroil tank farm area, 100 feet north of the southern property boundary and approximately 300 feet east of the western property boundary. The sample was obtained using a stainless steel bucket auger from 5 to 6 feet in depth. No unusual soil conditions were noted. X106 was taken across the street west of the site as the background. The sample point was in a vacant lot, 25 feet west of the west curb of the street and 300 feet north of the Southern Railroad tracks. A stainless steel spoon was used to obtain the sample from zero to 6 inches in depth. X106 was taken in this location due to the areas appearance as being representative and undisturbed. S101 was obtained from a drain just east of the plants' paint storage area. The only bottles used here were the 2-water VOC's. The sample was a black oily liquid which registered 4 units on the NHU where background was noted as 1 unit on the 0-20 unit scale. Samples S102, S103 and S104 were taken in the drainage ditch north of the railroad tracks and south of the facility. S102 was designated the upstream sample, S103 was taken where the ditch accepted runoff from the southeast portion of Champions property. S104 was taken where the ditch accepted outfall from a storm sewer which ran under Champions property. All samples were taken using separate stainless steel spoons from zero to 3 inches. All samples were dark brown in the top one-eighth inch then medium brown to black to 3 inches. No unusual odors were noted.

After sample collection, all jars were evidence taped and packaged in coolers in accordance with USEPA required procedures. All samples were analyzed for the Target Compound List constituents except S101 which was analyzed for only VOC's. The samples requiring analysis for inorganics were sent to IEPA's Champaign lab, while samples requiring analysis for organics were delivered to IEPA's Springfield lab. Photographs of the site and sample points are provided in Appendix E (Figure 3-3 for photo locations). A photo for sample point X101 was, for reasons unknown, not taken.

Decontamination Procedures. Standard Illinois Environmental Protection Agency decontamination procedures were followed prior to the collection of all samples. The procedures included the scrubbing of all equipment (augers, spoons, pans, etc.) with a non-foaming Trisodium Phosphate solution, rinsing with hot tap water, rinsing with acetone, rinsing with hot tap water again and final rinsed with distilled water. All equipment is air dried, then wrapped and stored in heavy duty aluminum foil for transport to the field. Field decontamination procedures include all of the above except the hot tap water rinse.



SOURCE: IEPA, 1989

PHOTO LOCATIONS

FIGURE 3-3

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes the analytical results of IEPA-collected samples for TCL compounds.

4.2 ANALYTICAL RESULTS OF IEPA-COLLECTED SAMPLES

Chemical analysis of the water/oil sample collected by IEPA personnel revealed the following substances from the VOA-TCL: volatiles and common laboratory artifacts. Chemical analysis of soil/sediment samples collected by IEPA personnel revealed the following substances from the TCL: volatiles, semi-volatiles, pesticides, heavy metals, common laboratory artifacts and common soil constituents (see Table 4-1 for the summary of the water/oil and soil/sediment sample chemical analysis results). Complete laboratory analytical data of all sample analysis are provided in Appendix F.

Volatile analysis of the samples collected by IEPA personnel revealed contamination in samples X101, X102, X103 and X104. These contaminants appear to be attributable to the painting and cleanup processes associated with the oil filter line of products. Semi-volatile analysis has indicated contamination at sample location X102, under the plastisol tanks. These constituents are generally associated with coal tar production. Further investigation may explain the source of these contaminants. Inorganics analysis revealed very high levels of barium in sample X104. Elevated levels of beryllium in S102, S103, S104 and X105 were noted. High levels of calcium were found in samples S102, X101, X102, X103 and X104. High iron content was found in all samples except S101, X102, X103 and X104. Elevated levels of zinc were noted in X102 and X104. The high levels of barium may be attributable to the anti rust coating placed on metal parts during oil filter manufacture.

CHAMPION LABORATORIES
110 94074555

TABLE A-1
SUMMARY

SAMPLE POINT	S 101 7-18-89	S 102 7-18-89	S 103 7-18-89	S 104 7-18-89	S 101 7-18-89	S 101 7-18-89	S 103 7-18-89	S 104 7-18-89	S 105 7-18-89	S 106 7-18-89	REMARK
PHENMETEP											
VOLATILES (ppb)											
Chloroethane	--	--	--	--	--	--	--	--	--	--	--
Bromoethane	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	1300.0 J	2.0 J	--	1.0 J	--	3.0 J	7.0	3.0 J	0.9 J	1.0 J	--
Acetone	--	67.0 J	--	200.0 J	--	67.0	72.0	230.0	--	--	--
Carbon Disulfide	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	2.0 J	--	--	--	--
1,2-Dichloroethene(total)	--	--	--	--	--	--	--	--	--	--	--
Chloroform	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	4000.0 R	8.0 J	13.0 R	14.0 R	2400.0 R	15.0 J	12.0 J	83.0 J	12.0 R	11.0 P	--
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	--	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	1.0 J	--	--	--	--	--
Trans-1,3-Dichloropropene	--	--	--	--	--	--	--	--	--	--	--
Bromofume	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	--	--	--	--	--	--	--	40.0 J	--	--	--
2-Hexanone	--	--	--	--	--	--	--	25.0 J	--	--	--
Tetrachloroethene	--	--	--	--	--	--	--	--	--	--	--
Toluene	2300.0 J	--	--	--	4700.0	12.0	1.0 J	9.0 J	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	--	2.0 J	--	--	--	--	--
Chlorobenzene	--	--	--	--	--	--	24.0 J	--	--	--	--
Ethylbenzene	--	--	--	--	--	7.0 J	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Xylene(total)	1000.0 J	--	--	--	--	45.0	0.6 J	10.0 J	--	2.0 J	--
SEMIVOLATILES (ppb)											
Phenol	--	--	--	--	--	--	--	--	--	--	--
1,3,2-Chloroethyl ether	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	--	--	--	--	--	--	--	--	--	--	--

TABLE 4-1
 SUMMARY

SAMPLING POINT PARAMETER	S 101 7-18-89	S 102 7-14-89	S 103 7-18-89	S 104 7-18-89	S 101 7-18-89	S 102 7-18-89	S 103 7-18-89	S 104 7-18-89	S 105 7-18-89	S 106 7-18-89	REMARK 7-18-89
1,2-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl) ether	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	--	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-Propylamine	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	--	--	--	--	--	--	--	--	--	--	--
Isophorone	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	--	--	--	--	--	--	--	--	--	--	--
bis(2Chloroethoxy) Methane	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-Methylphenol	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl-phenyl ether	--	--	--	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	--	--	--	--	4600.0 J	6000.0 J	--	--	--	--	--
N-Nitrosodiphenylamine	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl-phenylether	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	--	220.0 J	--	--	--	--	--	--	--	--	--
Phenanthrene	--	125.0 J	--	--	--	--	--	--	--	--	--
Anthracene	--	--	--	--	--	--	--	--	--	--	--
Di-n-butylphthalate	--	640.0 J	--	360.0 J	1200.0 J	--	--	--	--	--	--
Fluoranthene	--	--	--	360.0 J	1600.0 J	76000.0 J	--	--	160.0 J	720.0 J	--

CHAMPION LABORATORIES
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TABLE 4-1
SUMMARY

SAMPLING POINT PARAMETER	S 101 7-18-89	S 102 7-18-89	S 103 7-18-89	S 104 7-18-89	S 101 7-18-89	S 102 7-18-89	S 103 7-18-89	S 104 7-18-89	S 105 7-18-89	S 106 7-18-89	ELHA 7-18-89
INORGANICS (ppm)											
Aluminum	--	9700.0	12700.0	8700.0	9400.0	2500.0	3100.0	1700.0	14700.0	7200.0	15.6 U
Antimony	--	0.6 U	0.4 U	0.4 U	0.3 B	0.5 U	0.3 U	1.2 B	0.3 U	0.3 U	0.4 U
Arsenic	--	7.1	8.0	4.7	4.5	2.6	2.9	2.5	3.9	4.3	0.2 U
Barium	--	120.0	96.0	75.0	77.0	49.0	32.0	600.0	96.0	72.0	0.3 U
Beryllium	--	0.8	1.2	1.1	1.0 B	0.6 B	0.4 B	0.1 U	1.2	0.3	0.1 U
Cadmium	--	11.0	15.0	11.0	8.1	5.2	5.8	8.6	12.5	8.7	0.3
Calcium	--	28000.0	7700.0	2200.0	96000.0	91000.0	44000.0	148000.0	21000.0	9200.0	27.4 U
Chromium	--	18.0	24.0	18.0	15.0	17.0	11.0	37.0	27.0	14.0	0.6 U
Cobalt	--	17.0	20.0	19.0	9.4 B	5.7 U	10.0	7.7	22.0	13.0	0.4
Copper	--	18.0	19.0	15.0	11.0	15.0	12.0	7.6	14.0	11.0	0.3 U
Iron	--	30000.0	41000.0	31000.0	19100.0	7600.0	11600.0	14000.0	33700.0	23000.0	7.4 U
Lead	--	50.0	22.0	76.0	21.0	25.0	24.0	72.0	23.0	30.0	2.8
Magnesium	--	5200.0	4800.0	2800.0	59.0 B	5900.0	7200.0	3500.0	2800.0	2900.0	18.4 U
Manganese	--	530.0	440.0	490.0	143.0	146.0	300.0	160.0	310.0	470.0	0.2 U
Mercury	--	0.1	--	--	--	0.2	--	--	--	--	--
Nickel	--	18.0	23.0	18.0	14.0	9.1	14.0	9.2	70.0	15.0	0.9 U
Potassium	--	900.0 B	1100.0	800.0 B	540.0 B	390.0 U	470.0 B	660.0 B	940.0	690.0 B	76.0
Selenium	--	0.3 U	0.2 U	0.3 U	0.2 U	0.3 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Silver	--	0.9 U	0.8 U	1.1 U	1.1 U	0.6 U	1.1 U	0.7 U	0.9 U	0.6 U	0.6
Sodium	--	450.0 B	130.0 U	121.0 U	170.0 U	150.0 U	120.0 U	300.0 B	153.0 U	99.0 U	11.4 U
Thallium	--	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U
Vanadium	--	23.0	33.0	23.0	23.0	9.1 B	11.0	2.0 U	32.0	20.0	0.6
Zinc	--	130.0	83.0	64.0	110.0	290.0	140.0	450.0	55.0	73.0	2.2 U
Cyanide	--	1.0 U	1.0 U	0.7 U	0.7 U	1.2 U	0.6 U	0.6 U	0.7 U	0.6 U	2.0 U
Sulfate	--	--	--	--	--	--	--	--	--	--	--
Sulfide	--	--	--	--	--	--	--	--	--	--	--

ORGANIC DATA QUALIFIERS

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticide/PCB's analyzed by GC/EC methods.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the Case Narrative.

INORGANIC DATA QUALIFIERS

C (Concentration) Qualifier:

- B - Indicates the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).
- U - Indicates compound was analyzed for but not detected.

Q Qualifier:

- E - The reported value is estimated because of the presence of interference.
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while the sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) Qualifier Enter:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- "NR" if the analyte is not required to be analyzed.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section discusses data and information that apply to potential migration pathways and targets of compounds that may be attributable to Champion Laboratories, Inc.

The five migration pathways of concern are groundwater, surface water, air, fire and explosion and direct contact.

5.2 GROUNDWATER

There were no groundwater well samples taken during the July 18, 1989 SSI nor have there been any taken in the past due to the sites distance from any groundwater wells. There were no public or private wells in the area that would have yielded useful data. There are no private water districts within a four mile radius of the site. Residences within 2 miles of the site are all served by the City of Albion's water system which has wells located eight miles southeast along the Wabash River. Residences 3 miles from the site along main roads also are served by Albions system. Residences 4 miles from the site along Route 130 south toward Grayville are served by the Albion water system. There appears to be a limited potential for chemical constituents to migrate by groundwater off-site and a very limited potential for contaminants to affect private wells. This is due to the areas geological characteristics. Unconsolidated glacial deposits forming Edwards County's land surface vary in thickness and water-yielding capabilities. In the uplands between preglacial bedrock valleys, where Albion and it's surrounding area is located, the unconsolidated deposits are thin (25 feet or less) with poor possibilities for successful drilled wells completed in sand and gravel. Beneath the

unconsolidated deposits are the bedrock units of the upper part of the Pennsylvanian system. These units consist principally of shale with only thin beds of water yielding sandstone or creviced limestone. The only source for water, considered the aquifer, would be the thin sand and gravel deposits in the unconsolidated material just above bedrock. The top of the aquifer of concern is approximately 15 feet. The nearest groundwater well is a private well located approximately 2.5 miles from the site. Others using private groundwater wells are scattered throughout the 4 mile radius area.

5.3 SURFACE WATER

No surface water samples were collected during the July 18, 1989 SSI of the Champion Laboratories site.

There is potential for surface water contamination to migrate off-site due to site surface water run-off emptying into the ditch adjacent to the Southern Railroad tracks at the south boundary of the facility. Run-off enters the ditch, flows west joining an intermittent stream, continues to flow west for a mile and a half where it begins to flow southwest. From this point the stream enters Butter Creek. Butter Creek enters Big Creek which then enters the Little Wabash River. As stream level decreases in the ditch and intermittent stream after a rain event and flow ceases, the stagnant water either evaporates or infiltrates into the soil and stream bed. The stream and creek flow through a number of fields on its course to the Little Wabash with no noted or reported contamination complaints. There are no known intake points for irrigation systems and no surface intakes for drinking water systems along this surface water route. Traces of coal tar, creosote constituents were noted in sediment samples from the railroad ditch. These do not appear to be attributable to the site but more likely to be from the weathering of railroad ties.

5.4 AIR

A release of contaminants to the air was detected by instruments when sampling of S101 was taking place. With the sample point remaining undisturbed prior to sample collection, no release was documented. No other sample point registered any airborne contamination. The site does contain incompatible materials (corrosives and acids) which may pose a hazard to the surrounding area if not properly handled and stored. Population within 4 miles of the site is approximately 3295 people.

5.5 FIRE AND EXPLOSION

No fire and/or explosion threat was documented during the SSI at the Champion Laboratories site.

5.6 DIRECT CONTACT

This pathway does not appear to be a concern at the site even though contaminants were found in a surface soil sample under the plastisol tanks. Site access is restricted by fencing surrounding the yard area of the facility with lockable gates at site entry points and barbed wire topping the fence. No additional security personnel are employed by the facility. There has not been any problems associated with trespassing in the past. Calculations using a USGS topographic map of the area indicate the population within a 1-mile radius of the site to be approximately 2483 people.

6. BIBLIOGRAPHY

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KC:sf/sp/3310k,1-17

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APPENDIX A- SITE 4-MILE RADIUS MAP; APPENDIX B – SITE 15-MILE STREAM MAP

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APPENDIX A

SITE 4-MILE RADIUS MAP

APPENDIX B

SITE 15-MILE STREAM MAP

APPENDIX C

U. S. EPA FORM 2070-13

APPENDIX C

U. S. EPA FORM 2070-13



Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

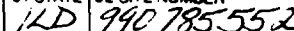
01 STATE 02 SITE NUMBER
1LD 990785552

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) CHAMPION LABORATORIES		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 105 EAST WALNUT				
03 CITY ALBION		04 STATE IL	05 ZIP CODE 62806	06 COUNTY EDWARDS	07 COUNTY CODE 047	08 CONG. DIST. 19
09 COORDINATES LATITUDE 38 22 29.0 LONGITUDE 088 03 15.0		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN				

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 07.18.89 MONTH DAY YEAR		02 SITE STATUS <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1970 IN OPERATION BEGINNING YEAR ENDING YEAR		
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER (Specify)					
05 CHIEF INSPECTOR KENNETH W. CORKILL		06 TITLE EPS III		07 ORGANIZATION RPMIS	08 TELEPHONE NO. 217 782-6760
09 OTHER INSPECTORS GARY RESIDE		10 TITLE EPS II		11 ORGANIZATION RPMIS	12 TELEPHONE NO. 217 782-6760
13 SITE REPRESENTATIVES INTERVIEWED STEVEN K. STORCKMAN		14 TITLE PLANT MGR		15 ADDRESS 105 EAST WALNUT, ALBION	
MARY K. SMERDON		ENVIR. SUPER.		618 445-6011	
17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT		18 TIME OF INSPECTION 11:00 AM		19 WEATHER CONDITIONS Cloudy - PARTLY CLOUDY - WARM - 87°F - SLIGHT BREEZE FROM THE SE.	
IV. INFORMATION AVAILABLE FROM					
01 CONTACT KENNETH W. CORKILL		02 OF (Agency/Organization) ILLINOIS EPA/RPMIS			03 TELEPHONE NO. 217 782-6760
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM KENNETH W. CORKILL		05 AGENCY IEPA	06 ORGANIZATION RPMIS	07 TELEPHONE NO. (217) 782-6760	08 DATE 09.19.89 MONTH DAY YEAR



- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 92-725552

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 3281

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

POTENTIAL FOR GROUNDWATER CONTAMINATION EXISTS BUT IS A LIMITED POTENTIAL. GROUNDWATER IN THE AREA IS LOCATED AT 15-20 FEET IN DEPTH. GLACIAL TILL COMPOSES THE SOIL IN EDWARDS COUNTY WHICH LIMITS GROUNDWATER MOVEMENT. WATER YIELDING SAND + GRAVEL IS SCARCE + WHEN ENCOUNTERED IT IS LOCATED BETWEEN 30' - 50 FEET IN DEPTH DEPENDING ON THICKNESS OF TILL DEPOSITS.

01 ☒ B SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 0

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

CONTAMINATION OF SURFACE WATER COULD RESULT IF SITE RUN OFF CONTAINED CONTAMINANTS. SEVERAL AREAS ON-SITE WERE NOTED TO BE STAINED WITH A DARK SUBSTANCE. ALSO, SEVERAL CONTAMINANTS WERE FOUND UNDER THE PLASTISOL TANKS. NO SUBSTANCES OR ESTIMATED QUANTITIES WERE FOUND OFF-SITE. NO INTAKES NOTED 1/2 MILES DOWNSTREAM.

01 ☐ C CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☒ D FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: 2679

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

CORROSIVE WASH SOLUTION, POTASSIUM HYDROXIDE, IS HIGHLY CAUSTIC (PH > 12.5). IF CONTACT IS MADE WITH ACID A VIOLENT REACTION COULD RESULT.

01 ☐ E DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☒ F CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: < 1

(Acres)

02 ☒ OBSERVED (DATE: 7-18-89)
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

SOIL UNDER PLASTISOL TANKS, SOIL IN SOUTHEAST AREA OF SITE IN 2 LOCATIONS. SAMPLES WERE TAKEN + CONTAMINATION WAS VERIFIED.

01 ☒ G DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 550

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

RESIDENTS WITHIN 2-MILES OF THE SITE PLUS VARIOUS OTHER RESIDENTS ALONG MAIN ROADS UP TO 3-MILES FROM THE SITE ARE SERVED BY THE ALBION PUBLIC WATER SYSTEM WHICH OBTAINS WATER FROM EAST OF GRAYVILLE, 8 MILES SOUTH-EAST OF ALBION. ALSO REFERENCE "A" + "B".

01 ☐ H WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

01 ☐ I POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 990785552

II. HAZARDOUS CONDITIONS AND INCIDENTS *(continued)*

01 ☐ J DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ K DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION *(include name(s) of species)*

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ L CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☒ M UNSTABLE CONTAINMENT OF WASTES

(Spills, Runoff, Standing liquids, Leaking drums)

03 POPULATION POTENTIALLY AFFECTED: 3281

02 ☒ OBSERVED (DATE 7-18-89) ☒ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

WASTE LIQUID WAS FOUND UNDER THE PLASTIC TANKS WITH THE POTENTIAL FOR
MIGRATE TO LEAK.

01 ☐ N DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☒ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE 7-18-89) ☒ POTENTIAL ☐ ALLEGED

SAMPLE OBTAINED FROM THE DRAIN OUTSIDE THE PAINT STORAGE AREA WAS
FOUND TO CONTAIN ESTIMATED VALUES OF VOLATILE CONSTITUENTS. THERE IS
POTENTIAL FOR ADDITIONAL CONTAMINATION TO OCCUR IN THIS AREA.

01 ☒ P ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE 7-18-89) ☒ POTENTIAL ☐ ALLEGED

REFERENCE "M" + "O". ALSO, DUMPING OF A CONTAMINANT OUT OF A BACK
DOOR WAS THOUGHT TO HAVE OCCURRED. A SAMPLE OF THE AREA VERIFIED
CONTAMINATION.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 3281

IV. COMMENTS

V. SOURCES OF INFORMATION *(Cite specific references e.g. State logs, sample analysis reports)*

REFERENCE PART 2 - VI

USGS TOPOGRAPHIC MAPS - ALBION NORTH + SOUTH, BONE GAP + GRAYVILLE



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 990785552

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <small>Check all that apply:</small>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A NPDES				
<input type="checkbox"/> B UIC				
<input type="checkbox"/> C AIR				
<input type="checkbox"/> D RCRA				
<input type="checkbox"/> E RCRA INTERIM STATUS				
<input type="checkbox"/> F SPCC PLAN				
<input type="checkbox"/> G STATE <small>Specify:</small>				
<input type="checkbox"/> H LOCAL <small>Specify:</small>				
<input type="checkbox"/> I OTHER <small>Specify:</small>				
<input type="checkbox"/> J NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL <small>Check all that apply:</small>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <small>Check all that apply:</small>	05 OTHER
<input type="checkbox"/> A SURFACE IMPOUNDMENT			<input type="checkbox"/> A INCENERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B PILES			<input type="checkbox"/> B UNDERGROUND INJECTION	
<input checked="" type="checkbox"/> C DRUMS, ABOVE GROUND	VARIED QUANTITIES		<input checked="" type="checkbox"/> C CHEMICAL PHYSICAL	
<input checked="" type="checkbox"/> D TANK, ABOVE GROUND			<input type="checkbox"/> D BIOLOGICAL	
<input type="checkbox"/> E TANK, BELOW GROUND			<input type="checkbox"/> E WASTE OIL PROCESSING	
<input type="checkbox"/> F LANDFILL			<input type="checkbox"/> F SOLVENT RECOVERY	
<input type="checkbox"/> G LANDFARM			<input type="checkbox"/> G OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H OPEN DUMP			<input type="checkbox"/> H OTHER <small>Specify:</small>	
<input type="checkbox"/> I OTHER <small>Specify:</small>				06 AREA OF SITE - 5-6 AC/RS

07 COMMENTS

- DRUMS CONTAIN PAINT FOR APPLICATION TO OIL FILTERS. NUMBER OF DRUMS VARY.
- 3 TANKS ARE ON SITE FOR SEPARATION OF OIL & WATER. 1 FOR A HOLDING TANK OF BOTH OIL & WATER (SEPARATOR), THE OTHER 2 HOLD WATER AND OIL RESPECTIVELY.
- OIL IS HAULED TO INDIANA FOR TREATMENT & WATER IS CHEMICALLY TREATED TO BE ACCEPTABLE FOR DISCHARGE TO ALBION'S SEWER SYSTEM & SEWAGE PLANT.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES Check one:

☐ A. ADEQUATE, SECURE ☒ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

DRUMS OF PAINT ARE STORED IN A SEMI-TRAILER UNTIL THEY ARE TO BE USED. OLD DRUMS ARE HELD UNTIL A NEW SHIPMENT OF PAINT ARRIVES & THEN ARE HAULED AWAY. PLASTISOL TANKS ARE SURROUNDED BY GRAVEL & CONCRETE CURBS. NO DIKING IS PLACED AROUND THE SEPARATOR & OIL & WATER TANKS.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS ANYONE ON-SITE OR TRESPASSING WOULD BE ABLE TO MAKE CONTACT WITH THE WASTE UNDER THE PLASTISOL TANKS & IN 3 OTHER AREAS WHERE SOIL SAMPLES WERE TAKEN.

VI. SOURCES OF INFORMATION Give specific references, e.g. state files, sample analysis, reports

REFERENCE PART 2 - VI



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
14D 990785552

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)		02 STATUS			03 DISTANCE TO SITE	
	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	
COMMUNITY	A <input type="checkbox"/>	B <input checked="" type="checkbox"/>	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	A. 8.0 (mi)
NON-COMMUNITY	C <input type="checkbox"/>	D <input checked="" type="checkbox"/>	D <input type="checkbox"/>	E <input type="checkbox"/>	F <input type="checkbox"/>	B. 2.5 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A ONLY SOURCE FOR DRINKING ☐ B DRINKING (Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)

☐ C COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 550

03 DISTANCE TO NEAREST DRINKING WATER WELL 2.5 (mi)

04 DEPTH TO GROUNDWATER 15 (ft)

05 DIRECTION OF GROUNDWATER FLOW UNKNOWN

06 DEPTH TO AQUIFER OF CONCERN 15 (ft)

07 POTENTIAL YIELD OF AQUIFER UNKNOWN (gpd)

08 SOLE SOURCE AQUIFER ☒ YES ☐ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

GROUND WATER WELLS RANGE IN DEPTH FROM 15 FT - 130 FT. + ARE USED FOR PRIVATE RESIDENTIAL DRINKING WATER + CATTLE WATERING ETC.

10 RECHARGE AREA ☐ YES ☒ NO COMMENTS

11 DISCHARGE AREA ☒ YES ☐ NO COMMENTS SITE IS LOCATED OVER A HIGH BED ROCK AREA WITH BED ROCK + GLACIAL DEPOSITS GETTING DEEPER + THICKER RESPECTIVELY AWAY FROM THE SITE.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
UNNAMED DITCH	<input type="checkbox"/>	30 FT.
BUTLER CREEK	<input type="checkbox"/>	3.25 (mi)
BIG CREEK	<input type="checkbox"/>	5.75 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE TWO (2) MILES OF SITE THREE (3) MILES OF SITE

A. 2483 NO OF PERSONS B. 2679 NO OF PERSONS C. 2831 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION 50 FT.

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ≈ 1100

04 DISTANCE TO NEAREST OFF-SITE BUILDING 50 FT.

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

WITHIN ONE MILE OF THE SITE POPULATION IS URBAN + RURAL ABOUT 50% EACH. WITHIN THE REMAINDER OF THE 4 MILE RADIUS AREA POPULATION IS RURAL.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
140 990785552

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A $10^{-5} - 10^{-6}$ cm/sec ☒ B $10^{-4} - 10^{-5}$ cm/sec ☐ C $10^{-4} - 10^{-3}$ cm/sec ☐ D GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A IMPERMEABLE (Less than 10^{-6} cm/sec) ☒ B RELATIVELY IMPERMEABLE ($10^{-6} - 10^{-5}$ cm/sec) ☐ C RELATIVELY PERMEABLE ($10^{-5} - 10^{-4}$ cm/sec) ☐ D VERY PERMEABLE (Greater than 10^{-4} cm/sec)

03 DEPTH TO BEDROCK

25-80 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

1.0 (ft)

05 SOIL pH

4.0-6.0

06 NET PRECIPITATION

7.4 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.8 (in)

08 SLOPE
SITE SLOPE

3 %

DIRECTION OF SITE SLOPE

SOUTHWEST

TERRAIN AVERAGE SLOPE

2 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A (mi)

B. 1.5 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

(mi)

ENDANGERED SPECIES:

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

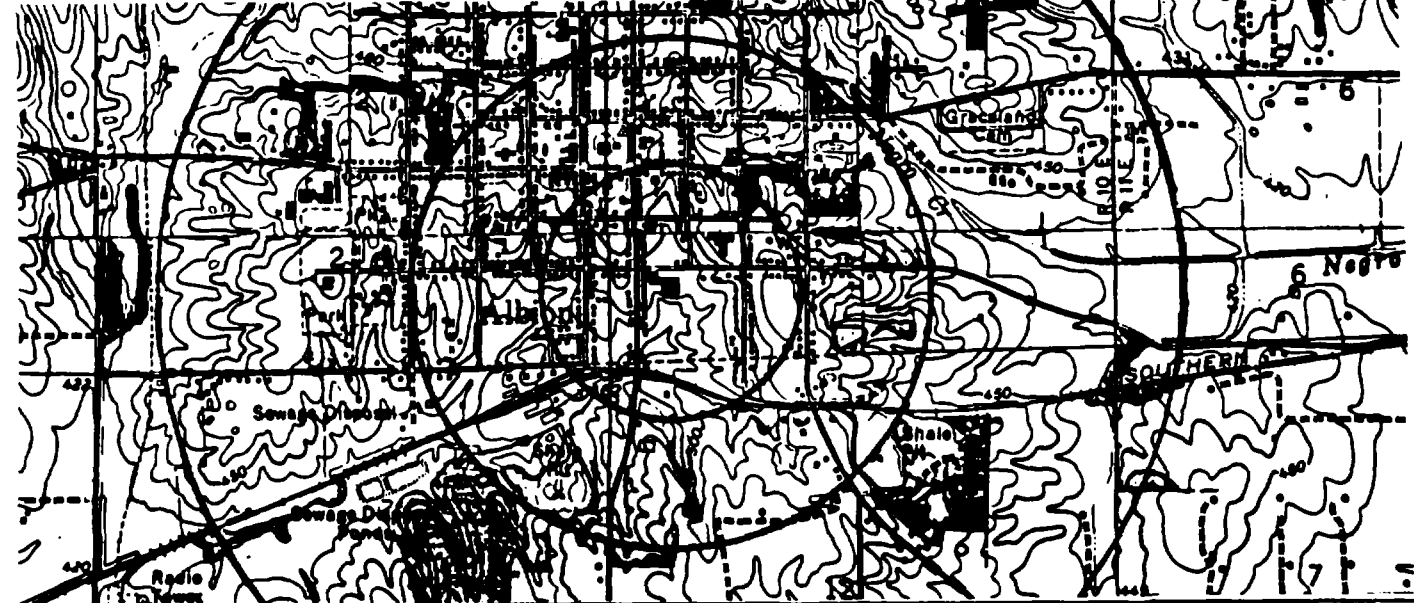
AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A 0.125 (mi)

B. 50 FT

C. 0.50 (mi) D. 0.25 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

- REFERENCE PART 3-V
- HRS GUIDANCE MANUAL



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 990785552 ✓

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL / SEDIMENT	9	ORGANICS - IEPA SPRINGFIELD LAB INORGANICS - IEPA CHAMPAIGN LAB	9/5/89
VEGETATION			
OTHER OILY LIQUID	1	SPRINGFIELD LAB (ILL. EPA LAB)	9/5/89

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HASU	BACKGROUND OF 1 UNIT (SCALE - 0-20) PAINT STORAGE AREA DRAIN REGISTERED
	4 UNITS. NO OTHER LOCATION REGISTERED.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF ILLINOIS EPA (Name of organization or individual)
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS 2200 CHURCHILL RD., SPRINGFIELD IL.

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

N/A

VI. SOURCES OF INFORMATION (Cite specific references, e.g. State Reg. Sample analysis reports)

REFERENCE PART 2 - VI



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
14D 990785552

II. CURRENT OWNER(S)				PARENT COMPANY (If applicable)			
01 NAME CHAMPION LABORATORIES INC.		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 105 EAST WALNUT		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY ALBION		06 STATE IL	07 ZIP CODE 62806	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (Last most recent first)				IV. REALTY OWNER(S) (If applicable, list most recent first)			
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Give specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VI



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 99078555

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (If applicable)

01 NAME SAME AS OWNER		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VI



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
14D 910785552

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (See specific references, e.g., state files, sample analysis, reports)

N/A



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

140 990785552

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☒ D. SPILLED MATERIAL REMOVED

02 DATE

03 AGENCY SUPERIOR TRUCKING

04 DESCRIPTION 300-400 GALLONS OF HEPTANE SPILLED. IMMEDIATELY REMOVED BY SUCTION FROM THE TRUCK INVOLVED. SPILL AREA WAS CONTAINED, DILUTED WITH WATER, ALSO REMOVED BY SUCTION. EVAPORATION REMOVED ANY REMAINING SPILL REMNANTS. SAMPLING BY IEPA CONFIRMED AREA WAS CLEAN.

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE

03 AGENCY



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 990785552

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

III. SOURCES OF INFORMATION (Case specific references, e.g., state files, sample analyses, reports)

REFERENCE PART 2-VI



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

14D 990785552

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL STATE LOCAL REGULATORY ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NA

APPENDIX D
TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. chloromethane	10 ug/l	10 ug/kg
2. bromomethane	10	10
3. vinyl chloride	10	10
4. chloroethane	10	10
5. methylene chloride	5	5
6. acetone	10	10
7. carbon disulfide	5	5
8. 1,1-dichloroethene	5	5
9. 1,1-dichloroethane	5	5
10. t-1,2-dichloroethene	5	5
11. 1,2-dichloropropane	5	5
12. chloroform	5	5
13. 1,2-dichloroethane	5	5
14. 2-butanone	10	10
15. 1,1,1-trichloroethane	5	5
16. carbon tetrachloride	5	5
17. vinyl acetate	10	10
18. dichlorobromomethane	5	5
19. c-1,3-dichloropropene	5	5
20. trichloroethene	5	5
21. benzene	5	5
22. chlorodibromomethane	5	5
23. 1,1,2-trichloroethane	5	5
24. t-1,3-dichloropropene	5	5
25. 2-chloroethyl vinyl ether	10	10
26. bromoform	5	5
27. 2-hexanone	10	10
28. 4-methyl-2-pentanone	10	10
29. 1,1,2,2-tetrachloroethane	5	5
30. tetrachloroethene	5	5
31. toluene	5	5
32. chlorobenzene	5	5
33. ethylbenzene	5	5
34. styrene	5	5
35. total xylenes	15	15

CRDL - Contract Required Detection Limit

Base/Neutral Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. Hexachloroethane	10 ug/l	330 ug/kg
2. Bis (2-chloroethyl) ether	10	330
3. Benzyl Alcohol	10	330
4. Bis (2-chloroisopropyl) ether	10	330
5. N-nitrosodi-n-propylamine	10	330
6. Nitrobenzene	10	330
7. Hexachlorobutadiene	10	330
8. 2-Methylnaphthalene	10	330
9. 1,2,4-trichlorobenzene	10	330
10. Isophorone	10	330
11. Naphthalene	10	330
12. 4-Chloroaniline	10	330
13. Bis (2-chloroethoxy) methane	10	330
14. Hexachlorocyclopentadiene	10	330
15. 2-chloronaphthalene	10	330
16. 2-Nitroaniline	50	1600
17. Acenaphthylene	10	330
18. 3-Nitroaniline	50	1600
19. Acenaphthene	10	330
20. Dibenzofuran	10	330
21. Dimethylphthalate	10	330
22. 2,6-Dinitrotoluene	10	330
23. Fluorene	10	330
24. 4-Nitroaniline	50	1600
25. 4-Chlorophenyl-phenyl ether	10	330
26. 2,4-Dinitrotoluene	10	330
27. Diethylphthalate	10	330
28. N-Nitrosodiphenylamine	10	330
29. Hexachlorobenzene	10	330
30. Phenanthrene	10	330
31. 4-Bromophenyl-phenyl ether	10	330
32. Anthracene	10	330
33. Dibutylphthalate	10	330
34. Fluoranthene	10	330
35. Pyrene	10	330
36. Butyl benzyl phthalate	10	330
37. Bis (2-ethylhexyl) phthalate	10	330
38. Chrysene	10	330
39. Benzo (a) anthracene	10	330
40. 3,3'-Dichlorobenzidene	20	660
41. Di-n-octyl phthalate	10	330
42. Benzo (b) fluoranthene	10	330
43. Benzo (k) fluoranthene	10	330
44. Benzo (a) pyrene	10	330
45. Indeno (1,2,3-cd) pyrene	10	330
46. Dibenzo (a,h) anthracene	10	330
47. Benzo (g,h,i) perylene	10	330
48. 1,2-Dichlorobenzene	10	330
49. 1,3-Dichlorobenzene	10	330
50. 1,4-Dichlorobenzene	10	330

Acid Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. Benzoic Acid	50 ug/l	1600 ug/kg
2. Phenol	10	330
3. 2-chlorophenol	10	330
4. 2-nitrophenol	50	1600
5. 2-methylphenol	10	330
6. 2,4-dimethylphenol	10	330
7. 4-methylphenol	10	330
8. 2,4-dichlorophenol	10	330
9. 2,4,6-trichlorophenol	10	330
10. 2,4,5-trichlorophenol	50	1600
11. 4-chloro-3-methylphenol	10	330
12. 2,4-dinitrophenol	50	1600
13. 2-methyl-4,6-dinitrophenol	50	1600
14. Pentachlorophenol	50	1600
15. 4-nitrophenol	50	1600

Pesticide Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. alpha-BHC	.05 ug/l	8.0 ug/kg
2. beta-BHC	.05	8.0
3. delta-BHC	.05	8.0
4. Lindane (gamma-BHC)	.05	8.0
5. Heptachlor	.05	8.0
6. Aldrin	.05	8.0
7. Heptachlor epoxide	.05	8.0
8. Endosulfan I	.05	8.0
9. 4,4'-DDE	.10	16.0
10. Dieldrin	.10	16.0
11. Endrin	.10	16.0
12. 4,4'-DDD	.10	16.0
13. Endosulfan II	.10	16.0
14. 4,4'-DDT	.10	16.0
15. Endrin aldehyde	.10	16.0
16. Endosulfan sulfate	.10	16.0
17. Methoxychlor	.50	80.0
18. Chlordane	.50	80.0
19. Toxaphene	.50	80.0
20. Arochlor-1016	1.0	160.0
21. Arochlor-1221	.50	80.0
22. Arochlor-1232	.50	80.0
23. Arochlor-1242	.50	80.0
24. Arochlor-1248	.50	80.0
25. Arochlor-1254	1.0	160.0
26. Arochlor-1260	1.0	160.0

Inorganic Target Compounds

Metals Analyses (CRDL)-ug/l*

Aluminum	200
Antimony	60
Arsenic	10
Barium	200
Beryllium	5
Cadmium	5
Chromium	10
Cobalt	50
Copper	~ 25
Iron	100
Lead	5
Manganese	15
Mercury	0.2
Nickel	40
Selenium	5
Silver	10
Thallium	10
Vanadium	50
Zinc	20

Other Inorganics

Cyanide
Sulfide
Phenols
Nitrogen-Ammonia
Nitrogen, Total Kjeldahl
Nitrogen-Nitrate
Boron
pH

*Any analytical method specified in the Quality Assurance Project Plan (QAPP) may be utilized as long as the documented instrument or method detection limits meet the Contract Required Detection Level requirements. Higher detection levels may only be used in the following circumstance:

If the sample concentration exceeds two times the detection limit of the instrument or method in use, the value may be reported even though the instrument or method detection limit may not equal the CRDL. This is illustrated in the example below:

For lead:

Method in use -- ICP

Instrument Detection Limit (IDL) = 40

Sample Concentration = 85

Contract Required Detection Level (CRDL) = 5

The value of 85 may be reported even though instrument detection limit is greater than required detection level. The instrument or method detection limit must be documented as described in Form IIIX.

These CRDL are the instrument detection limits obtained in pure water that must be met using ICP/Flame AA or Furnace AA. The detection limits for samples may be considerably higher depending on the sample matrix.

APPENDIX E
IEPA SITE PHOTOGRAPHS

DATE: July 18, 1989

TIME: 11:00 AM

Photograph by:

K. CORKILL

Location: _____

0470050002-EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

SOUTH



(1)

DATE: July 18, 1989

TIME: 11:00 AM

Photograph by:

K. CORKILL

Location: _____

0470050002-EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

SOUTHEAST



(2)

DATE: July 18, 1989

TIME: 2:20 pm

Photograph by:

K. CORKILL

Location: 5101

0470050002 - EDWARDS CO.
CHAMPION LABORATORIES INC.

Comments: Picture taken toward

WEST NEAR PAINT
STORAGE ROOM

(3)



DATE: July 18, 1989

TIME: 2:20 pm

Photograph by:

K. CORKILL

Location: 5101

0470050002 - EDWARDS CO.
CHAMPION LABORATORIES INC.

Comments: Picture taken toward

WEST NEAR PAINT
STORAGE ROOM

(4)



DATE: July 18, 1989

TIME: 3:00 pm

Photograph by:

K. CORKILL

Location: X102

0470050002-EDWARDS CO.
CHAMPION LABORATORIES INC.

Comments: Picture taken toward

NORTHWEST AT
PLASTISOL TANK
AREA



(5)

DATE: July 18, 1989

TIME: 3:00 pm

Photograph by:

K. CORKILL

Location: X102

0470050002-EDWARDS CO.
CHAMPION LABORATORIES INC.

Comments: Picture taken toward

NORTHWEST AT
PLASTISOL TANK
AREA



(6)

DATE: July 18, 1989

TIME: 3:15 PM

Photograph by:

K. CORKILL

Location: X103

0470050002 - EDWARDS CO.
CHAMPION LABORATORIES INC.

Comments: Picture taken toward

NORTH WEST



⑦

DATE: July 18, 1989

TIME: 3:15 PM

Photograph by:

K. CORKILL

Location: X103

0470050002 - EDWARDS CO.
CHAMPION LABORATORIES INC.

Comments: Picture taken toward

NORTH WEST



⑧

DATE: July 18, 1989

TIME: 3:45 pm

Photograph by:

K. CORKILL

Location: X104

0470050002-EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

EAST

(9)



DATE: July 18, 1989

TIME: 3:45 pm

Photograph by:

K. CORKILL

Location: X104

0470050002-EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

WEST

(10)



DATE: July 18, 1989

TIME: 4:20 pm

Photograph by:

K. CORKILL

Location: X105

0470050002 - EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

NORTHEAST



(11)

DATE: July 18, 1989

TIME: 4:20 pm

Photograph by:

K. CORKILL

Location: X105

0470050002 - EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

SOUTH



(12)

DATE: July 18, 1989

TIME: 4:25 pm

Photograph by:

K. CORKILL

Location: X105

0470050002 - EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

SOUTHEAST



(13)

DATE: July 18, 1989

TIME: 5:10 pm

Photograph by:

K. CORKILL

Location: 5102

0470050002 - EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

EAST



(14)

DATE: July 18, 1989

TIME: 5:10 pm

Photograph by:

K. CORKILL

Location: 5102

0470050002-EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

EAST



(15)

DATE: July 18, 1989

TIME: 5:10 pm

Photograph by:

K. CORKILL

Location: 5102

0470050002-EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

WEST



(16)

DATE: July 18, 1989

TIME: 5:12 pm

Photograph by:

K. CORKILL

Location: S103

0470050002 - EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

NORTH



(17)

DATE: July 18, 1989

TIME: 5:30 pm

Photograph by:

K. CORKILL

Location: S104

0470050002 - EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

NORTHEAST



(18)

DATE: July 18, 1989

TIME: 6:00pm

Photograph by:

K. CORKILL

Location: X106

0470050002 - EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

EAST



(19)

DATE: July 18, 1989

TIME: 6:00 pm

Photograph by:

K. CORKILL

Location: X106

0470050002 - EDWARDS CO.

CHAMPION LABORATORIES INC.

Comments: Picture taken toward

WEST



(20)